RUCKUS® R370

Indoor Wi-Fi 7 (802.11be) Access Point with 3.57 Gbps Data Rate



BENEFITS

Cost effective solution for facilities of any size
The R370 Wi-Fi 7 (802.11be) access point (AP) is a cost effective solution that can deliver fast and reliable enterprise class Wi-Fi services to up to 256 client devices with up to 16 SSIDs per AP.

Industry leading Wi-Fi performance
Patented RUCKUS technologies for performance optimization and interference mitigation delivers superior user experience.

Small size, minimal visual impact
With a compact, low-profile design, Its discreet form factor enables placement in visually sensitive areas such as hotel rooms, classrooms, or small offices.

Mesh networking
Dynamically create self-forming, self-healing network mesh with RUCKUS patented SmartMesh technology reducing expensive cabling, and complex configurations by checking a box.

Multiple unified management options
Manage the R370 from the cloud, with on-premises physical/virtual appliances, or without a controller.

Keep existing switches and cables
Designed to operate on existing PoE switches and CAT 5e cabling to minimize costly power infrastructure upgrades.

IoT* Ready
Eliminate siloed networks and unify Wi-Fi and IoT technologies into one single network with the addition of an optional USB module.

2.5 GbE port minimizes wired backhaul bottleneck
Multi-gigabit Wi-Fi performance delivered through the built-in 1/2.5Gbps Ethernet port to connect to multi-gigabit switches

* Supported in a future update

Facilities of any size can face significant demands on their wireless infrastructure. Guests staying in a motel, employees working from a small office, or individuals connecting to a public hotspot, often use the same high-bandwidth applications and content as they would anywhere else—and they expect fast and reliable connectivity. How do you deliver enterprise class wireless connectivity at a cost that remains accessible to even the most budget-conscious organizations?

The RUCKUS® R370 offers dependable, high-performance Wi-Fi 7 (802.11be) networking in a compact form factor. Equipped with patented RUCKUS technologies for optimizing performance and reducing interference—just like our top-tier access points—it ensures exceptional user experiences. With a low profile design, it's tailored for smaller venues while keeping costs affordable.

The R370 is an ideal choice for lower-density environments with less coverage areas including small and medium-size economy hotels and motels, small and medium-size businesses, retail locations, restaurants, and multi-tenant small offices, student housing and branch offices.

The RUCKUS R370 is a dual-band concurrent indoor Wi-Fi 7 AP that delivers 4 spatial streams (2x2:2 in 2.4GHz, 2x2:2 in 5GHz) and supports Wi-Fi 7 features, offering class leading performance with a combined data rate of 3.57 Gbps.

Furthermore, a 2.5 Gbps Ethernet port minimizes wired backhaul bottleneck for full use of available Wi-Fi capacity.

The R370 Wi-Fi 7 AP incorporates patented technologies found only in the RUCKUS Wi-Fi portfolio.

- **ChannelFly**® dynamically finds the least congested Wi-Fi channels to improve AP throughput
- **AI-driven Radio Resource Management** operates in the cloud, constantly monitoring the network for any radio interference and automatically adjusting radio settings and resources to maximize Wi-Fi performance
- **Adaptive Wi-Fi Cell Sizing** dynamically adjusts the size of Wi-Fi cells in real-time to maximize performance and capacity in high-density areas.
- **RUCKUS SmartCast technology** optimizes traffic management on Wi-Fi networks for multimedia, applications like video and voice.

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Enterprises are increasingly relying on a variety of wireless technologies beyond Wi-Fi, such as BLE and Zigbee, leading to fragmented network silos. To address this, a unified platform is essential. The **RUCKUS IoT solution** brings these diverse wireless technologies together under a single platform, seamlessly integrating Wi-Fi, BLE, Zigbee, and more. The RUCKUS R370 supports this unified approach with a USB port that enables an optional pluggable BLE and Zigbee IoT module, ensuring streamlined connectivity across wireless networks.

The R370 provides an ideal combination of features and performance for smaller environments at a price any business can afford.

R370 Access Point antenna pattern

RUCKUS superior antenna technology enables the best possible connection with every devices, delivering

- Better Wi-Fi coverage
- Reduced RF interference

Figure 1. 2.4GHz Azimuth Antenna Patterns

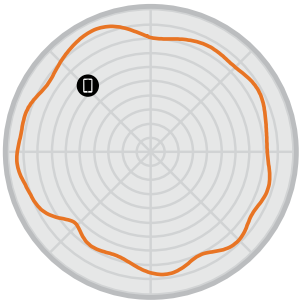


Figure 2. 5GHz Azimuth Antenna Patterns

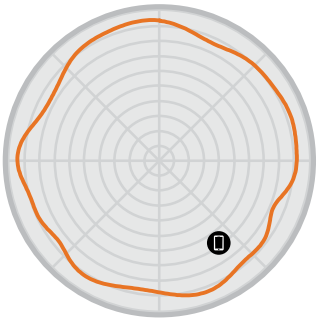


Figure 3. 2.4GHz Elevation Antenna Patterns

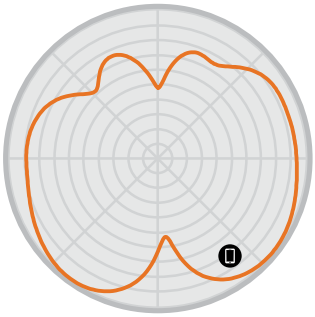
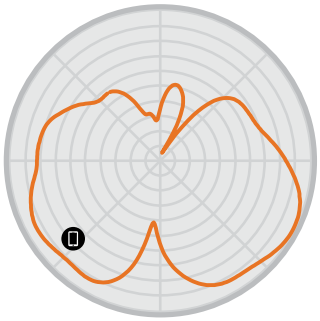


Figure 4. 5GHz Elevation Antenna Patterns



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WI-FI	
Wi-Fi Standards	• IEEE 802.11a/b/g/n/ac/ax/be
Supported Rates	• 802.11be: up to 3.57 Gbps • 802.11ax: 4 to 1774 Mbps • 802.11ac: 6.5 to 867 Mbps • 802.11n: 6.5 Mbps to 300 Mbps (MCS0 to MCS15) • 802.11a/g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps • 802.11b: 11, 5.5, 2 and 1 Mbps
Supported Channels	• 2.4GHz: 1-13 • 5GHz: 36-64, 100-144, 149-165
MIMO	• 2x2 SU-MIMO • 2x2 MU-MIMO
Spatial Streams	• 2 streams SU/MU-MIMO 5 GHz • 2 streams SU/MU-MIMO 2.4 GHz
Radio Chains and Streams	• 2x2:2 (5 GHz) • 2x2:2 (2.4 GHz)
Channelization	• 20, 40, 80, 160 MHz
Security	• WPA-PSK, WPA-TKIP, WPA2, WPA3-Personal, WPA3-Enterprise, AES, WPA3, 802.11i, Dynamic PSK • WIPS/WIDS
Other Wi-Fi Features	• WMM, Power Save, Tx Beamforming, LDPC, STBC, 802.11r/k/v, MBO • Hotspot, Hotspot 2.0 • MLO (Multi-link operation), Preamble Puncturing • Web Authentication, Guest Access • Captive Portal • WISPr

RF	
Antenna Gain (max)	• Up to 4dBi
Peak Transmit Power *(Aggregate across MIMO chains)*	• 2.4GHz: 23 dBm • 5GHz: 23 dBm
Frequency Bands	• ISM (2.4-2.484GHz) • U-NII-1 (5.15-5.25GHz) • U-NII-2A (5.25-5.35GHz) • U-NII-2C (5.47-5.725GHz) • U-NII-3 (5.725-5.85GHz)

2.4GHZ RECEIVE SENSITIVITY (dBm)

HT20		HT40		VHT20		VHT40	
MCS0	MCS7	MCS0	MCS7	MCS0	MCS7	MCS0	MCS7
-97	-78	-94	-75	-97	-78	-94	-75
HE20/EHT20				**HE40/EHT40**			
MCS0	MCS7	MCS9	MCS13	MCS0	MCS7	MCS9	MCS13
-97	-78	-73	-82	-94	-75	-71	-59

5GHZ RECEIVE SENSITIVITY (dBm)

HT20/VHT20				HT40/VHT40				HT80/VHT80			
MCS0	MCS7	MCS8	MCS9	MCS0	MCS7	MCS8	MCS9	MCS0	MCS7	MCS8	MCS9
-97	-78	-75	-73	-94	-75	-73	-70	-92	-73	-70	-67
HE20/EHT20				**HE40/EHT40**				**HE80/EHT80**			**HE160/EHT160**
MCS0	MCS9	MCS13		MCS0	MCS9	MCS13		MCS0	MCS9	MCS13	MCS0	MCS9	MCS13
-97	-73	-62		-94	-70	-59		-92	-67	-55	-89	-64	-52

2.4GHZ TX POWER TARGET (PER CHAIN)	
Rate	**Pout (dBm)**
MCS0, HT20	20
MCS7, HT20	17
MCS9, VHT20	15
MCS11, HE40	13
MCS13, EHT40	11

5GHZ TX POWER TARGET (PER CHAIN)	
Rate	**Pout (dBm)**
MCS0, HT20	20
MCS7, HT20	17
MCS9, VHT80	15
MCS11, HE160	13
MCS13, EHT160	11

PERFORMANCE AND CAPACITY	
Peak PHY Rates	• 2.4GHz: 688 Mbps • 5GHz: 2.882 Gbps
Client Capacity	• Up to 256 clients per AP
SSID	• Up to 16 per AP (8 per band)

RUCKUS RADIO MANAGEMENT	
Antenna Optimization	• Polarization Diversity with Maximal Radio Combining (PD-MRC)
Wi-Fi Channel Management	• ChannelFly • Background Scan Based
Client Density Management	• Adaptive Band Balancing • Client Load Balancing • Airtime Fairness
SmartCast Quality of Service	• QoS-based scheduling • Directed Multicast • L2/L3/L4 ACLs
Mobility	• SmartRoam
Diagnostic Tools	• SpeedFlex

Product owner is responsible to abide by the country of deployment spectrum regulations when configuring and deploying this product/device. AP operates as per local regulations via country regulatory domain.

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NETWORKING	
Controller Platform Support	• RUCKUS One • SmartZone • RUCKUS Unleashed[1]
Mesh	• SmartMesh™ wireless meshing technology. Self-healing Mesh
IP	• IPv4, IPv6
VLAN	• 802.1Q (1 per BSSID or dynamic per user based on RADIUS) • VLAN Pooling • Port-based
802.1x	• Authenticator & Supplicant
Tunnel	• GRE, Soft-GRE**
Policy Management Tools	• Access Control Lists • Device Fingerprinting • Rate Limiting • Application Recognition and Control

PHYSICAL INTERFACES	
Ethernet	• 1 x 2.5 GbE port, RJ-45
DC Power	• 48V DC Power Jack
USB**	• 1 USB 2.0 Port, Type A (up to 3W power delivery)

PHYSICAL CHARACTERISTICS	
Physical Size	• 15.0(L) x 15.0(W) x 3.80(H) cm • 5.9(L) x 5.9(W) x 1.5(H) in
Weight	• 390g (13.76 oz)
Mounting	• Wall, Drop ceiling, Desk • Bracket (902-0120-000 sold separately)
Physical Security	• Hidden latching mechanism
Operating Temperature	• 0 °C (32 °F) to 40 °C (104 °F)
Operating Humidity	• Up to 95%, non-condensing

POWER[2]

Power Supply	Capabilities	Max Power Consumption
DC Input 48VDC **802.3at PoE+**	*Full Functionality* • 2.4GHz radio: 2x2, 20 dBm Tx Pwr • 5GHz radio: 2x2, 20 dBm Tx Pwr • USB enabled	20W
802.3af PoE	• 2.4GHz radio: 2x2, 14 dBm Tx Pwr • 5GHz radio: 2x2, 14.5 dBm Tx Pwr • USB disabled	12.94W

CERTIFICATIONS AND COMPLIANCE	
Wi-Fi Alliance[3]	• Wi-Fi CERTIFIED™ a, b, g, n, ac • Wi-Fi CERTIFIED 6™ • Wi-Fi CERTIFIED 7™* • WPA2™ -Enterprise, Personal • WPA3™ -Enterprise, Personal
Standards Compliance[4]	• EN 60950-1 Safety • EN 60601-1-2 Medical • EN 61000-4-2/3/5 Immunity • EN 50121-1 Railway EMC • EN 50121-4 Railway Immunity • UL 2043 Plenum • EN 62311 Human Safety/RF Exposure • WEEE & RoHS • ISTA 2A Transportation

SOFTWARE AND SERVICES	
Network Analytics	• RUCKUS® AI
Security and Policy	• Cloudpath

ORDERING INFORMATION	
901-R370-XX02	• R370 dual-band (5GHz and 2.4GHz concurrent) 802.11be Entry-Level wireless access point (up to 256 concurrent clients), 2x2:2 streams (2.4GHz/5GHz), PoE support. Does not include power adaptor or PoE injector. Includes Limited Lifetime Warranty.

Warranty: Sold with a Limited Lifetime Warranty.
For details see: http://support.ruckuswireless.com/warranty

OPTIONAL ACCESSORIES	
902-1180-XX00	• Multigigabit PoE injector 2.5/5/10-BaseT (60W)
902-0196-0000	• Spare, T-bar ceiling mount kit for mounting to flush frame ceiling
902-0120-0000	• Spare, Accessory Mounting Bracket
902-1170-XX00	• Power Adapter (48V, 0.75A, 36W)

PLEASE NOTE: When ordering Indoor APs, you must specify the destination region by indicating -US or -WW, instead of XX. When ordering PoE injectors or power supplies, you must specify the destination region by indicating -US, -EU, -AU, -BR, -CN, -IN, -KR, -SA, -UK, or -UN instead of -XX.

PACKAGING DIMENSIONS AND WEIGHT	
Package Size	• 15.6(L) x 17.8(W) x 7.2(H) cm
Package Weight	• 544g

1 Available in an upcoming software release. Refer to Unleashed datasheet for SKU ordering information.

2 Max power varies by country setting, band, and MCS rate.

3 For complete list of WFA certifications, please see the Wi-Fi Alliance website.

4 For current certification status, please see the price list.

* Certification pending

** Expected in a future software release

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About RUCKUS Networks

RUCKUS Networks builds and delivers purpose-driven networks that perform in the demanding environments of the industries we serve. Together with our network of trusted go-to-market partners, we empower our customers to deliver exceptional experiences to the guests, students, residents, citizens and employees who count on them.

www.ruckusnetworks.com

Visit our website or contact your local RUCKUS representative for more information.

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